

Page



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/784,719	02/14/2001	Kwang Tae Kim	8111-005-999	1576
20583	7590	07/29/2004	EXAMINER	
JONES DAY 222 EAST 41ST ST NEW YORK, NY 10017			CHAI, LONGBIT	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 07/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/784,719

Applicant(s)

KIM, KWANG TAE

Examiner

Longbit Chai

Art Unit

2131

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 11 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☐ Claim(s) \_\_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Priority*

1. The foreign priority has been made in this application.
2. The effective filing date for the subject matter defined in the pending claims in this application is 12/06/2000 on the benefit of foreign priority date.

### ***Claim Rejections - 35 USC § 102***

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 6, 7, and 8 are rejected under 35 U.S.C. 102(e) as being anticipated by Wadlow (Patent Number: US 6230271 B1), hereinafter referred to as Wadlow.
4. As per claim 6, Wadlow teaches a networking system consisting of at least one internal network and an external network, comprising:
  - a. an integrated security gateway interfacing with said at least one internal network and said external network for receiving and duplicating an incoming packet from one of the internal and external networks (Wadlow: see for example, Column 3 Line 50 – 55, Column 4 Line 8 – 12, Column 6 Line 59 – 68, Column 7 Line 1 – 11 and Figure 1); and

Art Unit: 2131

b. a black zone server coupled to the integrated security gateway for analyzing the duplicating packet (Wadlow: see for example, Column 2 Line 38 – 48, Column 8 Line 27 – 67, Column 6 Line 59 – 68, Column 7 Line 1 – 11).

c. said integrated security gateway inspecting whether the received incoming packet is to be denied based on the analysis in the black zone server (Wadlow: see for example, Column 2 Line 38 – 48, Column 8 Line 40 – 44, Column 7 Line 1 – 2).

5. As per claim 7, Wadlow teaches the claimed invention as described above (see claim 6). Wadlow further teaches the external network is the Internet (Wadlow: see for example, Column 3 Line 50 – 55 and Figure 1).

6. As per claim 8, Wadlow teaches the claimed invention as described above (see claim 6). Wadlow further teaches internal network is a local area network (Wadlow: see for example, Column 3 Line 50 – 55 and Figure 1).

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claims 1, 2, and 3 are rejected under 35 U.S.C. 103(a) as being anticipated by Wadlow (Patent Number: US 6230271 B1), hereinafter referred to as Wadlow.
8. As per claim 1, Wadlow teaches an integrated security gateway apparatus interfacing with an internal network and an external network for blocking a selected packet from the internal network or external network, comprising:
  - a. a packet duplicating module for receiving and duplicating an incoming packet from one of the internal and external networks (Wadlow: see for example, Column 3 Line 50 – 55, Column 4 Line 8 – 12, Column 6 Line 59 – 68, Column 7 Line 1 – 11 and Figure 1);
  - b. a black zone server coupled to the packet duplicating module for analyzing the duplicated packet (Wadlow: see for example, Column 2 Line 38 – 48, Column 8 Line 27 – 67, Column 6 Line 59 – 68, Column 7 Line 1 – 11); and
  - c. an inspection engine coupled to the packet duplicating module and the block zone server for inspecting whether the received incoming packet corresponds to said selected packet to be blocked based on the analysis in the block zone server (Wadlow: see for example, Column 2 Line 38 – 48, Column 8 Line 40 – 44, Column 7 Line 1 – 2),

Art Unit: 2131

d. wherein said black zone server serves as at least one of an intrusion detection system, an anti-virus system and a noxious site blocking system (Wadlow: see for example, Column 2 Line 38 – 48, Column 8 Line 27 – 67, Column 6 Line 59 – 68, Column 7 Line 1 – 11: The Barrier Computer (Proxy Server) configured with an Application Filtering Policy in conjunction with the Packet Filtering functions is qualified as a black bone server and the authentication to the user for a particular application service allows the blocking for any given noxious site of concerns).

9. The claim limitation addresses the security component features listed above as an integrated security gateway apparatus that implies taking the approach of combined features into one single device.

10. Wadlow teaches the combined techniques of using packet filtering policy enforcement and application filtering policy enforcement (Wadlow: see for example, Column 1 Line 32 – 45).

11. Wadlow also teaches in the preferred embodiment using a collection of components through a network which allows one component to communicate with another component in close physical proximity (Wadlow: see for example, Column 3 Line 56 – 61).

12. Wadlow also discloses the problems of taking single box approach such as (a) communication cutoff due to one single box failure, (b) vulnerability of security leakage of other services due to the security compromise of one service of the box, and so forth (Wadlow: see for example, Column 2 Line 13 – 24).

Art Unit: 2131

13. Therefore, It would have been obvious to a person of ordinary skill in the art at the time the invention was made to modify the distribution system approach to accommodate the single box solution because (if) the problems addressed above are not the issues of design concerns.

14. As per claim 2, Wadlow teaches the claimed invention as described above (see claim 1). Wadlow further teaches the external network is the Internet (Wadlow: see for example, Column 3 Line 50 – 55 and Figure 1).

15. As per claim 3, Wadlow teaches the claimed invention as described above (see claim 1). Wadlow further teaches internal network is a local area network (Wadlow: see for example, Column 3 Line 50 – 55 and Figure 1).

16. Claims 4, 5, 9 and 10 are rejected under 35 U.S.C. 103(a) as being anticipated by Wadlow (Patent Number: US 6230271 B1), hereinafter referred to as Wadlow, in view of Reardon (Patent Number: US 6212635 B1), hereinafter referred to as Reardon.

17. As per claim 4, Wadlow teaches the claimed invention as described above (see claim 1). Wadlow does not teach encrypting/decrypting means for encrypting the received incoming packet if said received packet is from the internal network to the external network and decrypting otherwise.

18. Reardon teaches encrypting/decrypting means for encrypting the received incoming packet if said received packet is from the internal network to the external network and decrypting otherwise (Reardon: see for example, Column 3 Line 55 – 67).

19. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Reardon within the system of Wadlow because encryption techniques assure the secure communications (Reardon: see for example, Column 1 Line 66 – 67 and Column 2 Line 1 – 2).

20. As per claim 5, Wadlow teaches the claimed invention as described above (see claim 4). Wadlow does not teach encrypting/decrypting means uses different keys depending on the source and the destination of the received packet.

21. Reardon teaches said encrypting/decrypting means uses different keys depending on the source and the destination of the received packet (Reardon: see for example, Column 3 Line 55 – 67).

22. Same rationale of combination applies here as above in rejecting the claim 4.

23. As per claim 9, Wadlow teaches the claimed invention as described above (see claim 6). Wadlow does not teach said integrated security gateway encrypts the received packet if said received packet is from the internal network to the external network and decrypts otherwise.

24. Reardon teaches said integrated security gateway encrypts the received packet if said received packet is from the internal network to the external network and decrypts otherwise (Reardon: see for example, Column 3 Line 55 – 67).



Art Unit: 2131

25. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teaching of Reardon within the system of Wadlow because encryption techniques assure the secure communications (Reardon: see for example, Column 1 Line 66 – 67 and Column 2 Line 1 – 2).

26. As per claim 10, Wadlow teaches the claimed invention as described above (see claim 9). Wadlow does not teach said integrated security gateway uses different keys depending on the source and the destination of the received packet.

27. Reardon teaches said integrated security gateway uses different keys depending on the source and the destination of the received packet (Reardon: see for example, Column 3 Line 55 – 67).

28. Same rationale of combination applies here as above in rejecting the claim 9.

Art Unit: 2131


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Longbit Chai whose telephone number is 703-305-0710. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R Sheikh can be reached on 703-305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Longbit Chai  
Examiner  
Art Unit 2131

LBC

AYAZ SHEIKH  
PATENT EXAMINER  
  
AYAZ SHEIKH  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100